Utah System of Higher Education
Paramedic
FY2027 / 33 Credits (1170 Clock-Hours)

Foundational Courses

TEPA 1110 Paramedic Fundamentals — 5 Credits / 150 Clock-Hours

The Paramedic Fundamentals course integrates topics such as EMS communications, the safety/well-being of the paramedic, medical/legal responsibilities, ethical issues, and research in EMS. Students learn pharmacology, pathophysiology, history taking, ventilatory management, suctioning, IV therapy, sterile techniques, medications/administration, medical terminology, cardiac emergency treatment, and patient assessment. The course reinforces concepts and clinical skills students previously learned at the EMT level. It introduces advanced concepts in EMS Systems, illness and injury prevention, medical-legal issues, anatomy, physiology, pathophysiology, and childbirth.
Objectives:
• Discriminate between normal and abnormal anatomy and physiology, and distinguish these characteristics as they relate to pathophysiology.
• Interpret complex medical, legal, and ethical issues in EMS.
• Outline factors that impact the health and wellness of the paramedic and correlate these with behaviors that promote a culture of safety.
• Explain variations in the assessment and management of the Adult and Pediatric airway.
• Explain fundamental principles of public health, health promotion, and illness and injury prevention.
• Identify cardiac patient electrophysiology, basic monitoring techniques and ECG rhythms recognition
• Assess and treat patients who may be experiencing a cardiovascular disorder.

TEPA 1111 Paramedic Fundamentals Lab — 4 Credits / 120 Clock-Hours

The Paramedic Fundamentals Lab course provides practical learning of skills and National Registry competencies including comprehensive patient assessment of adult and pediatric patients, history taking, medical assessment, advanced cardiac life support, advanced airway management, CPAP, ventilator use, IV insertion, medication administration, and IO insertion. Students demonstrate competency in the National Standard Curriculum. The course reinforces concepts and clinical skills students previously learned at the EMT level. It introduces advanced concepts in cardiology, airway management, respiratory distress, and resuscitation. Students learn to identify patient assessment and management within the paramedic's scope of care.

Objectives:
• Demonstrate competency in performing head-to-toe patient assessment.
• Perform advanced airway management.
• Manage advanced cardiac care and recognize acute life-threatening situations.
• Identify and apply cognitive, psychomotor, and affective skills in a simulated out-of-hospital environment.
• Demonstrate and record performance in the NREMT lab portfolio.
• Integrate the pathophysiology, assessment, and management of the medical patient.
• Analyze advanced patient assessment findings and formulate management of these emergencies within the paramedic scope of practice.

TEPA 1501 Advanced Emergency Care — 6 Credits / 180 Clock-Hours

The Advanced Emergency Care course includes concepts on special populations in paramedicine such as advanced pediatric management, OB/GYN emergencies, neonatal resuscitation, geriatrics, and Trauma events. It also introduces cold weather rescue, environmental emergencies, rope rescue, swift water rescue, crime scene management, neurology, endocrinology, gastroenterology, pulmonary emergencies, cricothyrotomy, chest venting, external jugular cannulation, toxicology, hematology, shock management, nasogastric tube insertion, Foley catheter insertion, scene leadership, and incident management for the paramedic.

Objectives:
• Diagnose injuries and illnesses accurately in pediatric, adult, and geriatric patients under the supervision of an approved preceptor.
• Treat injuries and illnesses safely using the entire spectrum of paramedic protocols under the supervision of an approved preceptor.
• Compare the management of normal deliveries versus high-risk pregnancy and related gynecological emergencies.
• Evaluate the pathophysiology, management, and resuscitation of infants, including neonates and newborns.
• Demonstrate a patient assessment of an obstetric patient and organize findings for assessment-based management of a normal and abnormal.
• Diagram the Incident Command Structure (ICS) and explain concepts of interdisciplinary roles in various EMS incidents.
• Integrate awareness and management of Hazardous Materials incidents, bioterrorism, WMD, and mass casualty incidents.
• Outline care which may include out-of-classroom education in high angle rescue, swift water rescue, paramedic course, aeromedicine, and ongoing field assessment.

TEPA 1511 Advanced Skills Lab — 3 Credits / 90 Clock-Hours

The Advanced Skills Lab course provides practical learning of skills and National Registry competencies. These include cricothyrotomy, thoracotomy, childbirth (both normal and abnormal deliveries), trauma assessment, hemorrhage and shock management, bandaging, and splinting. Students show competency in the National Standard Curriculum.

Objectives:
• Demonstrate competency on National Standards in the entire spectrum of paramedic practice.
• Demonstrate and record performance in the NREMT lab portfolio.
• Illustrate how multisystem trauma and Mechanism of Injury (MOI) relate to patient assessment and scene management.
• Differentiate the pathophysiology, assessment, and management of lung injuries, myocardial injuries, vascular injuries, and other chest-related injuries.
• Integrate the pathophysiology, assessment, and critical decision-making skills indicated for patients in special populations.
• Demonstrate patient management in simulated out-of-hospital scenarios of the medical and trauma patient.

TEPA 2121 Paramedic Capstone Experience **3 Credits / 90 Clock-Hours**

The Paramedic Capstone Experience course provides students with hands-on practice of the entire spectrum of paramedic care.

Objectives:
• Perform all duties as an entry-level paramedic using cognitive, affective, and psychomotor domains.
• Perform patient assessment in trauma situations.
• Demonstrate cardiac management skills.
• Manage patient condition competently in out-of-hospital scenarios.
• Demonstrate competency in airway, respiration, and ventilation, cardiology, resuscitation, trauma, medical, obstetrics and gynecology, and EMS operations for both adult and pediatric patients.
• Complete the required National Registry capstone portfolio.

TEPA 2993 Fundamental Externship **4 Credits / 180 Clock-Hours**

The Fundamental Externship course provides real-time hands-on training and treatment of patients under the supervision of an assigned preceptor. Students complete field and clinical rotations in a system with a local service provider. Students' progress from the most basic assessment and treatment methods to the level of entry-level paramedics. Students are involved with actual patient care, such as venous access, medication administration, respiratory treatment, and comprehensive patient assessment.

Objectives:
• Perform at an advanced EMT level in patient assessment and corresponding patient management.
• Demonstrate competence in interpersonal management when working cooperatively with professionals in the clinical and field.
• Receive and integrate feedback on-clinical performance.
• Demonstrate comprehensive patient assessment, including a detailed physical exam and patient history and devise a patient care plan based on assessment findings.
• Distinguish the need for basic versus advanced airway interventions.
• Order appropriate pharmacologic interventions based on patient presentation and assessment findings.
• Administer 12 lead EKGs to patients in the acute setting.
• Integrate the pathophysiology, assessment, and critical decision-making skills indicated for patients in special populations.
• Successfully complete student minimum competencies showing sufficient progression in obtaining patient contacts.

TEPA 2994 Advanced Care Externship **4 Credits / 180 Clock-Hours**

The Advanced Care Externship course provides real-time hands-on training and treatment of patients under the supervision of an assigned preceptor. Students participate in the head-to-toe assessment and advanced treatment skills in actual clinical and field emergencies. Students are involved with actual patient care such as venous access, medication administration, respiratory treatment, comprehensive patient assessment, childbirth, trauma assessment, pediatric assessment, cardiac resuscitation, and 12 lead ECG. This advanced care externship is intended to prepare students as entry-level Paramedics.

Objectives:
• Demonstrate the ability to safely assess and manage the treatment of an emergency pediatric, adult, or geriatric patient.
• Demonstrate a comprehensive patient assessment, including a detailed physical exam and patient history and devise a patient care plan based on assessment findings.
• Perform an exam of the OB patient.
• Perform advanced trauma life support and a comprehensive trauma exam.
• Perform advance cardiac life support treatment.
• Perform pediatric and neonate advanced life support.
• Differentiate assessment findings of critical and stable pediatric patients.
• Distinguish between normal physiology and pathophysiology in children with special healthcare needs.
• Integrate basic and advanced interventions in respiratory emergencies.
• Recommend specific basic and advanced life support interventions in the medical or trauma patient.
• Order appropriate pharmacologic interventions based on patient presentation and assessment findings.

TEPA 2999 Capstone Field Externship **4 Credits / 180 Clock-Hours**

In the Capstone Field Internship course, students participate in actual emergency out-of-hospital field situations, demonstrating team leadership, managing out-of-hospital situations, and successfully performing as competent entry-level paramedics in the field. Ongoing evaluation of the students' performance and competency in all areas of paramedicine will be the focus as the team lead calls under preceptor supervision.

Objectives:
• Demonstrate exemplary professional behavior, including but not limited to integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communication, time management, teamwork/diplomacy, respect, patient advocacy, and careful delivery of service.
• Perform basic and advanced interventions as a part of a treatment plan intended to mitigate emergencies, provide symptom relief, and improve the overall health of the patient.
• Evaluate the effectiveness of interventions and modify the treatment plan accordingly.
• Prepare and document assessment findings and interventions to be used for research purposes.
• Complete a minimum of 25 ALS patient contacts during the Capstone Field rotations.

Supplemental Courses Varies by Institution

Southwest

TEPA 1000 Introduction to Paramedicine **1 Credit / 30 Clock-Hours**

This course prepares the student to enter the paramedic program with the assurance that they have an essential basis in anatomy, physiology, English and math to be successful in the program.

Objectives:
• Execute clear, concise, and professional written communication.
• Accurately execute essential foundational math skills.
• Thoroughly explain general anatomy and physiology in relation foundational concepts requisite to pursue paramedic education.
• Demonstrate foundational knowledge, preparation, and readiness to enter the paramedic program.